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Ile Leu Ile Asn Cys Lys Lys Leu Lys Cys Leu Thr Asp Ile Tyr Leu
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Tyr Trp Ser Trp Ile Arg Gln Pro Ala Gly Lys Gly Leu Asp Trp Ile
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Gly Arg Ile Tyr Thr Ser Gly Asn Thr Asn Tyr Asn Pro Ser Leu Lys
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Ser Arg Val Thr Met Ser Val Asp Thr Ser Lys Asn Arg Phe Ser Leu
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Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
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 Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Val Ser Ser Pro
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Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Arg Val Thr Ser Ser
20 25 30
Cys Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
35 40 45
Ile Tyr Gly Thr Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
50 55 60
Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65 70 75 80
Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Val Ser Ser Pro
85 90 95
Leu Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg
100 105

<210> 63
<211> 379
<212> DNA
<213> Homo sapiens

<220>
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<222> (1)..(378)
<223>

<400> 63
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Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Ser Gly Gly
1 5 10 15
tcc ctt aga ctc tcc tgt gca gcc tcc gga ttc act ttc agt aac gcc 96
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Ala
20 25 30
tgg atg acc tgg gtc cgc cag gct cca ggg aag agg ctg gag tgg gtt 144
Trp Met Thr Trp Val Arg Gln Ala Pro Gly Lys Arg Leu Glu Trp Val
35 40 45
ggc cgt att aaa agc aat gct gat ggt ggg tca aca gac tac gct gca 192
Gly Arg Ile Lys Ser Asn Ala Asp Gly Gly Ser Thr Asp Tyr Ala Ala
50 55 60
ccc gtg aaa ggc aga ttc acc atc tca aga gat gat tca aaa aac acg 240
Pro Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr
65 70 75 80
ctg tat ctg caa atg aac agc ctg aaa acc gag gac aca gcc gtg tat 288
Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr
85 90 95
tac tgt aac aca gat aag ggt ggg agc tac ccc tac tac tac tac ggt 336

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cat gat gca tcc agt ttg caa agt ggg gtc cca tca agg ttc agc ggc 192

Tyr Asp Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

agt gga tct ggg aca gaa ttc act ctc aca atc agc agc ctg cag cct 240
Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

gaa gat ttt gca act tat tac tgt cta cag cat aat agt tac cca ttc 288
Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Ser Tyr Pro Phe
85 90 95

act ttc ggc cct ggg acc aaa gtg gat atc aaa cga 324
Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg
100 105

<210> 66
<211> 108
<212> PRT
<213> Homo sapiens

<400> 66
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Asn Asp
20 25 30

Leu Gly Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu Ile
35 40 45

Tyr Asp Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Ser Tyr Pro Phe
85 90 95

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg
100 105

<210> 67
<211> 378
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (1)..(378)
<223>

<400> 67
gag gtg cag ctg gtg gag tct ggc cca gga ctg gtg aag cct tcg gag 48
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1 5 10 15

acc ctg tcc ctc acc tgc act gtc tct ggt ggc tcc atc agt agt tac 96
Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Tyr
20 25 30

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tac tgg agc tgg atc cgg cag ccc cca ggg aag gga ctg gag tgg att 144
Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45

ggg tat atc tat tac agt ggg agc acc aac tac aac ccc tcc ctc aag 192
Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser Leu Lys
50 55 60

agt cga gtc acc ata tca gta gac acg tcc aag aac cag ttc tcc ctg 240
Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu
65 70 75 80

aag ctg agc tct gtg acc gct gcg gac acg gcc gtg tat tac tgt gcg 288
Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
85 90 95

aga gat gtc atg cag cag ccg gta cgg ggt tac tac tac tac tac ggt 336
Arg Asp Val Met Gln Gln Pro Val Arg Gly Tyr Tyr Tyr Tyr Tyr Gly
100 105 110

atg gac gtc tgg ggc caa gga acc ctg gtc acc gtc tcc tca 378
Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120 125

<210> 68
<211> 126
<212> PRT
<213> Homo sapiens

<400> 68
Glu Val Gln Leu Val Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
1 5 10 15

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Tyr
20 25 30

Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45

Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser Leu Lys
50 55 60

Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu
65 70 75 80

Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
85 90 95

Arg Asp Val Met Gln Gln Pro Val Arg Gly Tyr Tyr Tyr Tyr Tyr Gly
100 105 110

Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120 125

<210> 69
<211> 327
<212> DNA
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<220>
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<223>

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1 5 10 15

gaa aga gtc acc ctg tcc tgc agg gcc agt cag aga gtt agc aac agc 96
Glu Arg Val Thr Leu Ser Cys Arg Ala Ser Gln Arg Val Ser Asn Ser
20 25 30

tac tta gcc tgg tac cag cag aaa cct ggc cag gct ccc agg ttc ctg 144
Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Phe Leu
 35 40 45

atc tat ggt gta tcc agc agg gcc act ggc atc cca gac agg ttc agt 192
Ile Tyr Gly Val Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
50 55 60

ggc agt ggg tct ggg aca gac ttc act ctc acc atc agc aga ctg gag 240
Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65 70 75 80

oct gaa gat ttt gca gtg tat tac tgt cag cag tat ggt agt tca ccg 288
Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro
85 90 95

tgg acg ttc ggc caa ggg acc aag gtg gaa atc aaa cga 327
 Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
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<211> 109

<212> PRT

<213> Homo sapiens

Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Val Thr Leu Ser Cys Arg Ala Ser Gln Arg Val Ser Asn Ser
20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Phe Leu
35 40 45

Ile Tyr Gly Val Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro
85 90 95

Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
100 105